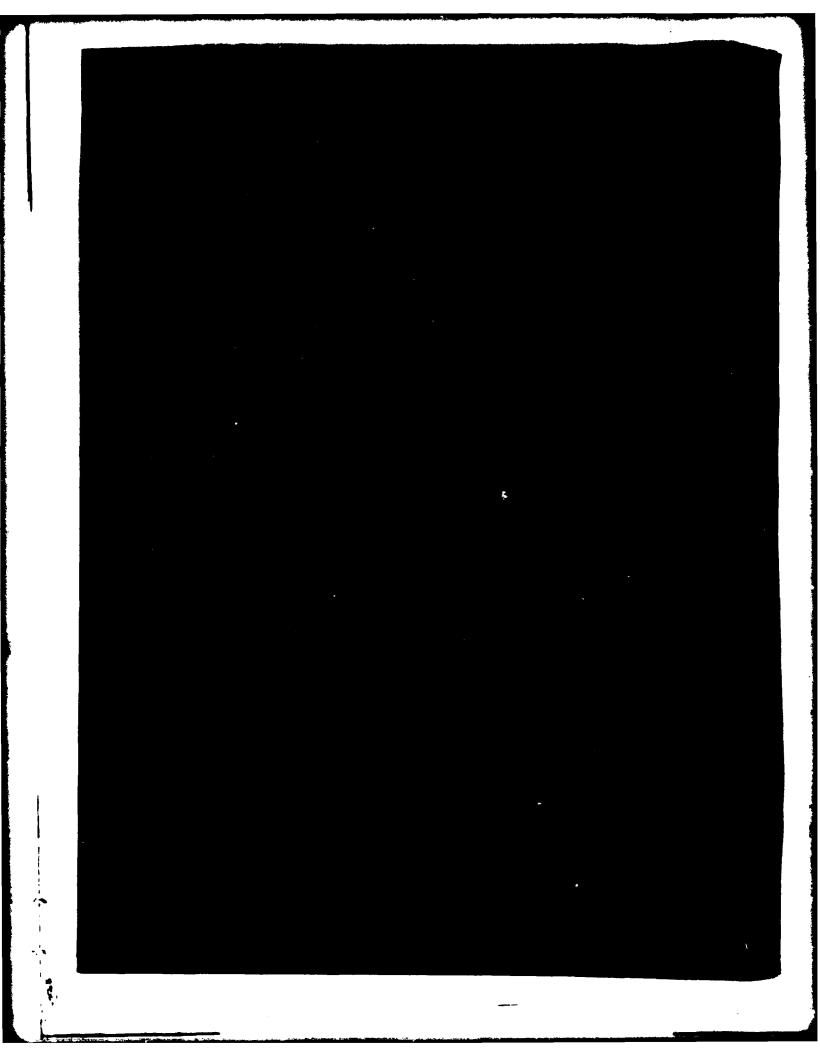


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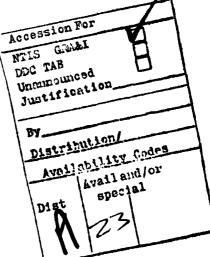
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INTRODUCTION

19702A GSRS , Missile Number $_{BR-3}$, Round Number $_{B-35}$, was launched from $_{IC-33}$, White Sands Missile Range (WSMR), New Mexico, at $_{0945}$ MDT, 31 August 1979 . The scheduled launch time was $_{0945}$ MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m^3) , wind direction and speed, and cloud cover were made at the <u>LC-33</u> Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch central room.
 - b. Upper Air
- (1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE

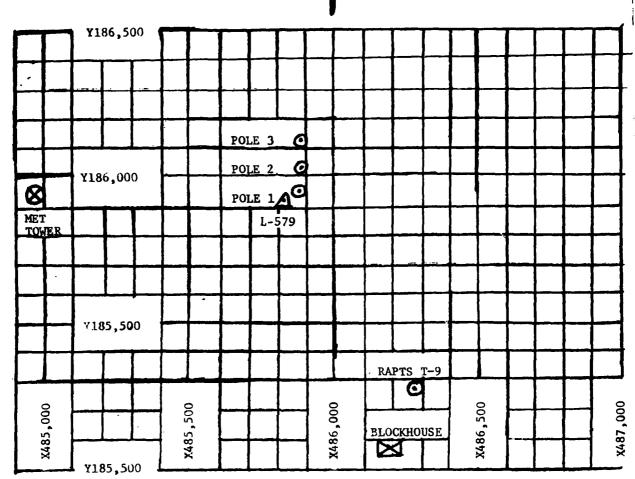
LC-33 2040 Meters NICK 2040 Meters

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 88,500 feet in 500-feet increments.

SITE AND TIME

SMR 0838 MST





- 1. MET TOWER 4 Bendix Model T-20 Anemometers at 12 ft, 62 ft, 102 ft, and 202 ft with E/A recorders.
- 2. POLE ANEMOMETER Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 38.7 ft
 - (b) Pole #2 53.0 ft
 - (c) Pole #3 83.6 ft
- 3. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.

TABLE 1. Surface Observations Taken at 0945 MDT, 31 August 1979, at LC-33, 19702A GSRS, Missile Number BR-3, Round Number B-35.

ELEVATION	3,977.3	FT/MSL
PRESSURE	880.0	MBS
TEMPERATURE	25.1	•c
RELATIVE HUMIDITY	63.0	%
DEW POINT	17.5	°C
DENSITY	1,020.0	GM/M ³
WIND SPEED	02.0	
WIND DIRECTION	060	DEGREES
CLOUD COVER	1	Cu
CLOUD COVER	1	Cs

TABLE 2. LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

POL	.E #1		PC	LE #2		PO	LE #3	
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	131	1.0	-30	063	1.0	-30	CAL	И
-20	129	1.0	-20	063	1.0	-20	CAL	М
-10	129	1.0	-10	063	1.0	-10	CAL	1
0.0	129	1.0	0.0	063	1.0	0.0	CAL	И
+10	129	1.0	+10	063	1.0	+10	⁵ CAL	1

POLE #1 = X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL

POLE #2 = X485,874.93 Y186,012.00 H4033.57 53.0 ft. AGL

POLE #3 = X485,877.29 Y186,116.06 H4063.92 83.6 ft. AGL

TYPE 19702A GSRS	MISSILE NO. BR-3	ROUTID NO). <u>B-35</u>	
AUNCHED FROM LC-33	DATE 31 August 1979	TIME 0945	MDT	
NOTE: WIND DIRECTIONS	ARE REFERENCED TRUE MORTH			

TABLE 3. LC-33 METEOROLOGICAL TOWER ANEMOMETER-MEASURED WINDS (202 FT. TOWER)

LEVEL #1 12 ft.			LEVEL #2 62 ft.		
T-TIME SEC	DIR DEG	SPEED	T-TIME SEC	DIR DEG	SPEED
-30	077	4.0	yn	120	3.0
-20	090	3.0	-20	117	3.0
-10	087	2.0	-10	117	2.0
0.0	090	2.0	0.0	CALM	CALM
+10	099	4.0	+10	108	1.0
_	EVEL #3 102 ft.		LEVEL #4 202 ft.		
T-TIME SEC	DIR DEG	SPEED	T-TIME SEC	DIR DEG	SPEED
-30	144	2,0	-30	141	2.0
-20	134	3,0	-20	141	3.0
-10	134	3,0	-10	141	2.0
0.0	134	3,0	0.0	135	2.0
+10	117	1.0	+10	127	3.0

WTSM Coordinates: X484,982.64 Y185,957.73 H3983.00 (base)

NOTE: WIND DIRECTIONS ARE REFERENCED TRUE NORTH.

TABLE 4			
RELEASED FROM LC-33 DATE 31 Aug	ust 1979	O_BMIT	932 MDT
RELEASE POINT COORDINATES (WSTM)	x=486,037.24	Y= 182,350.16	H= 3,977.30
MISSILE TYPE 19702A GSRS MISSILE N	0. BR-3	ROUND NO)B-35
MISSILE LAUNCHED FROM LC-33	DATE 31 Augus	st 1979 TI	ME 0945 MDT
NOTE: WIND DIRECTIONS ARE REFERENCE	ED TRUE NORTH.		
11570117 1177000 601			

HEIGHT - METERS AGL

HEIGHT	DIRECTION	SPEED
AGL	DEGREES	KTS
SFC		CALM
60		CALM
120	342	01.0
180	202	02.2
240	090	00.5
300	032	03.8
360	169	04.0
420	182	02.6
480	153	06.0
540	16.1	08.0
600	170	11.0
660	179	12.0
720	193	09.0
780	189	07.5
840	189	08.5
900	206	09.0
960	211	11.5
1020	211	12.5
1080	212	11.0

HEIGHTS AGL	DIRECTION DEGREES	SPEED KTS
1140	208	10.0
1200	208	08.0
1260	224	08.0
1320	213	07.0
1380	196	07.0
1440	194	04.5
1500	202	05.5
1560	208	05.0
1620	215	04.0
1680	226	02.5
1740	194	01.3
1800	177	02.2
1860	167	03.6
1920	180	01.5
1980	095	01.5
2040	055	02.9
2100	-	
2160		
2220		

TABLE 5
RELEASED FROM LC-33 DATE 31 August 1979 IME 0945 MDT
RELEASE POINT COORDINATES (WSTM) X= 486,037.24 Y= 182,350.16 H= 3977.30
MISSILE TYPE 19702A GSRS MISSILE NO. BR-3 ROUND NO. B-35
MISSILE LAUNCHED FROM LC-33 DATE 31 August 1979 TIME 0945 MDT
NOTE: WIND DIRECTIONS ARE REFERENCED TRUE NORTH.
HEIGHT - METERS AGL

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	060	02.0
60	322	01.5
120	163	02.6
180	122	01.8
240	039	01.5
300	122	03.2
360	168	07.0
420	175	07.0
480	157	06.0
540	175	06.0
600	186	09.0
660	197	08.0
720	197	07.0
780	184	06.0
840	197	08.0
900	211	10.0
960	204	13.0
1020	214	12.0
1080	200	11.0

HEIGHTS	DIRECTION	SPEED
AGL	DEGREES	KTS
1140	198	11.0
1200	210	09.0
1260	207	07.0
1320	207	07.5
1380	201	07.0
1440	194	06.0
1500	202	04.4
1560	205	03.7
1620	215	03.0
1680	208	02.4
1740	208	02.4
1800	154	01.8
1860	140	02.2
1920	162	02.5
1980	118	00.7
2040	040	01.8
		<u> </u>

TABLE 6
RELEASED FROM Nick Site DATE 31 August 1979 TIME 0935 MDT
RELEASE POINT COORDINATES (WSTM) X=470.734.56 Y= 255.775.64 H= 4.126.57
MISSILE TYPE 19702A GSRS MISSILE NO. BR-3 ROUND NO. B-35
MISSILE LAUNCHED FROM LC-33 DATE 31 August 1979 TIME 0945 MDT
NOTE: WIND DIRECTIONS ARE REFERENCED TRUE NORTH.
HEIGHT - METERS AGL

HEIGHT	DIRECTION	SPEED
AGL	DEGREES	KTS
SFC	075	03.0
60	074	00.5
120	188	01.5
180	192	02.5
240	174	03.0
300	162	02.0
360	144	02.0
420	157	03.5
480	187	04.0
540	193	03.5
600	189	03.0
660	199	03.5
720	196	02.5
780	210	01.0
840	333	01.0
900	270	02.0
960	239	01.5
1020	236	03.0
1080	223	03.5

HEIGHTS AGL	DIRECTION DEGREES	SPEED KTS
1140	198	02.0
1200	157	01.5
1260	117	01.5
1320	146	01.0
1380	159	01.0
1440	135	02.5
1500	135	00.5
1560	037	00.5
1620	090	02.0
1680	270	00.5
1740	311	02.0
1800	299	02.0
1860	301	03.0
1920	298	03.0
1980	306	03.5
2040	311	03.0
2100		
2160		
2220		

TABLE 7	
RELEASED FROM Nick Site DATE 31 August 1979	TIME 0945 MDT
RELEASE POINT COORDINATES (WSTM) X=470,734.56	Y-255,775,64 H= 4,126.57
MISSILE TYPE 19702A GSRS MISSILE NO. BR-3	ROUND NO. B-35
MISSILE LAUNCHED FROM LC-33 DATE 31 Aug	gust 1979 TIME 0945 MDT
NOTE: WIND DIRECTIONS ARE REFERENCED TRUE NORTH	

HFI	GH !	-	MŁ	IEK2	AGL

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC		CALM
60	276	01.0
120	142	03.0
180	144	04.5
240	150	05.5
300	163.05.5	05.5
360	146	03.5
420	145	03.5
480	135	03.0
540	180	01.5
600	202	02.5
660	202	94.0
720	175	03.0
780	205	02.0
840	292	01.5
900	288	02.0
960	270	02.5
1020	234	02.5
1080	227	03.5

HEIGHTS 1	DIRECTION	SPEED
AGL	DEGREES	KTS
1140	197	04.5
1200	200	02.0
1260	216	01.0
1320	161	02.0
1380	133	01.5
1440	135	01.5
1500	143	00.5
1560	022	01.0
1620	275	01.0
1680	315	02.0
1740	256	00.5
1800	288	02.5
1860	281	03.5
1920	269	04.5
1980	302	02.5
2040	288	02.0
2100		
2160		
2220		<u> </u>

4740		
r LEVEL	2430060230	
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<u>.</u>	"	S
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₹ : 4O			
	მგმი		
トレススト	2430060280	S E	TABLE 8
3			

GEODETIC COUNDINATES 32.48034 LAT LEG-106.42307 LON DEG

REL . HOM PERCENT	
RATURE DEWPUINI CENTIGKADE	
TEMPERAT AIR DEW DEGREES CEN	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
GEGMETRIC ALTITULE MSL FEET	419644.3 419644.3 10466.3 10466.3 10466.3 10464.1 10464.1 10464.3 10464.3 10466.3 1
PKESSURE MILLIBARS	

STATICN ALIITUDE 3997.30 FEET MSL 31 AUG. 79 0838 HKS HST ASCENSION NO. 206

SIGNIFICANT LEVEL DATA 24300-02-00 S M R

JEODETIC COUNDINATES 32.48034 LAT DEG 106.42307 LGI DEG

TABLE 8 Cont.

57.6 65970.1 -59.2 52.6 67836.3 -60.8 50.0 68900.0 -59.3 42.8 72204.9 -55.8 30.0 79727.9 -53.3 22.6 83652.0 -46.6	PRESSURE LLIBARS	PRESSURE GEOMETRIC ALTITUDE LLLIDARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGNAUE	REL. HUN.
67856.3 -6 68900.0 72204.9 -5 79727.9 -5 85552.0 -4	7.0	65970.1	-59.2	
68900.0 72204.9 -5 79727.9 -5 85552.0 -4	2.6	67835.3	-60.8	
72204.9 -5 79727.9 -5 8552.0 -4 88547.7 -4	0.0	64900.0	-59.3	
79727.9 -5 85852.0 -4 88547.7 -4	8.2	7∠204.9	-55.8	
88547.7 -4	0.0	6.72767	-53•3	
68547.7	9.2	85555.0	-46.8	
	0.03	88547.7	-44.5	

11

•		
STATION ALIITUDE 3997.30 FEET MSL	31 AUG. 79 0838 HRS MST	ASLENSACIA 140. COD

UPPER AIR DATA 2430000200 5 M R • TABLE 9

GEOCETIC COOMDINATES 32-48034 LAT LEG 106-42307 LOG DEG

GEUMETALC	PRESSURL		TEMPERATURE	RELIHUM.	DENSITY	SPECE OF	AINU DATA	ITA	INCEX
ALIITUVE MSL PERT	MILLIBARS	AIR UEGNLES	DEMPOINT CENTIGRADE	PERCENT	GM/CUBIC McTER		UIRELIIO.	SPEEU	OF REFRACTION
3997.3	879.2	26.2	18.6	0.49	1015.6	5.779	•	•	1.000318
4000	875.1	26.5	13.6	0.40	1013.6	677.2	193.1	•	•
4500.0	804.	22.8	S	· **	1008.9	672.9	1.561	.7	
5630.0		21.4	15.5	5-60	3∙065	671.5	193.	1.5	1.000299
5550.0		20.1	5	73.3	4. Se	663.1	1.061	2.4	•
0.0000	819.	16.8	14.6	9.92	970.5	5000	194.0	2.9	•
0.0050	865.3	19.5	5	20.07	•	60000	173.2	2.4	•
70000	751.	19.5	12.7	06.1	530.1	0.000	1:0.4	2.5	•
7550.0	777.	16.3	11.3	93.4	926.9	607.3	142.0	2.1	1.000255
6.0000	763.	17.5		· 00°	50%	600.1	L • V. C 1	2.0	•
3500.0		io.o	8.3	57.	5.060	6,5.0	151.1	1.7	1.000249
9000.0	730.	15.7	•	55.2	984.1	5.0.0	101.0	1.2	-
9000ck	723.	14.9	5.2	52.5	671.5	1.700	175.T	ં	-
\$0000T		13.7	•	51.5	8.459	5010	407.0	٠.	
10500.0	620.	12.4	2•G	51.7	840.3	6.25.7	3.01c	3.	-
11000.0		11.1	2.8	56.7	83c+y	4.50.1	330.0	•	-
11500.0	673.	7.6	2.7	9.10	822.0	0.000	01.0	†	•
12000-0	661.	す ・ の	2.5	ù 6 •ô	814.5	655.0	1-6,71	1.9	•
12560.0		7.1	ů.	62.6	802.7	4.009	154.5	u.5	•
13000-0		٠ ن ن	-1.9	57.4	792.9	651.0	1,550	3.4	1.000203
13500.0		¢•0	-2.7	59.0	4.187	5.000	133.5	6.1	•
14660-0		Ð.€	0.51	50°7	771.1	6,16.7	169.0	7.5	•
14500-0		2.0	-4.5	02.3	760.5	647.1	1-2-4	8	•
0.0000			-6.5	58.1	753・0	0+0+0	130.0	10.3	•
15500.0		•	8.6-	49.2	739.0	F.000	209.3	ے. د	•
3.0000	0.60G	-1.	-13.E	58.8	720.6	0.740	105.0	7.7	1.000173
10500		9.7-	5.03	22.0	710.6	0.14:0	104.1	S.8	•
170,000		†•¶1	-×4.5	15.0	701.7	646.4	C+7.0	ري د	•
17500.0		-2.3	-45.5	8.41	0∙ 069	5.1.0	グ・ジャン	6.1	1.000156
100000		-3.5	-cc.+	÷	672.0	5.04Q	1.107	4.7	•
10500.0		-4.1	27.3	÷	7.699	637. I	7.067	3 •	1.000152
19000.0	507.1	15.0	-43.2	•	65c•0	0.000	ຕ•ກູດຕ	£.0.	•
•	•	-5.9	•	3	0.040	1.750	2000	4.7	•
•	:	100	-10.1	n	636.9	4.054	0.1.0		1.000145
•	•	-7.4	0.0n-	13.1	6-020	5.000	ر • دارر د	さ・さ	1.000142
•	•	0.8-	21.7	ä	0110	6,000	/	か。せ	•
•	459.9	p•6-	-35.0	'n	•	6,200	337.	5.7	1.0001
22000.0	450.9	-11.0	4.60-	13.8	2.669	9,000	-	6. ه	~
	i	-12.5	-34.5	÷	ġ,	6.4.3	1.000	7.5	1.000133
		•	•						

UPPLR AIR DATA		TABLE 9 Cont.
CTATICA ALITUME 3.97. AN ESET MO	31 AUG- 79 0036 HRS MST	ASLENSION NO. 246

JEODETIC COOKDINATES
32.48034 LAT DEG
106.42307 LON DEG

INCEX	OF KEFRACTION
4 T	SPEEU KNOTS
WING DATA	ULKELTION SPEEU DEGREES(TH) KNOTS
SPEED OF	
DENSITY	GM/CUBIC MLTER
REL.HUM.	PERCENT GM/CUBIC
TEMPERATURE	AIR DEWPOINT P BARS DEGREES CENTIGRADE
TE	A1R DEGNĒES
PRES	MILL
EUME TH LC	LTITUDE Se Feet

GEOMETHIC	PRESSURE	TEM	TEMPERATURE	REL.HUM.	DENSITY	SPEEU OF	WING CATA	4	INUEX
ALTITUDE MSL FEET	MILLIBARS	A1R DEGNĒES	DEWPOINT CENTIGRADE	PERCENT	GM/CUBic Meter	SOUN SNCTS	DEGREES (TA)	SPEEU	OF KEFRACTION
23500.0	454.9	-13.5	-55.2	14.0	6-695	6.7.9	247.7	6.0	1.000129
0.00042	410.4	-14.9	-36.3	14.0	561.6		0.400	4.6	1.000127
<45.00.0	409-1	-16.3	-37.5	0.41	550.4		, 50¢	7.5	1.000125
0.00000	9.00%	-17.7	-33.6	14.0	540.4		U.740	6.1	•
<5500.0	391.9	-18.9	4-39-4	14.2	530.7		3.636	5.ê	1.000121
0.00000	363.9	-20.0	-43.2	74.4	520.2	6.619	3.9•4	5.6	1.000119
0.00362	376.1	-21.2	-41.0	14.7	515.9		3.000	7.7	1.000117
<70000·0	308.5	-22.3	-41.9	14.9	511.7		364.0	a•6	1.000115
67500.0	300.9	-23.4	-42.7	15.0	500.	615.7	?• ‡	£.6	1.000113
<0.00002	353.4	-24.5	-43.0	15.0	49.00		0. 00	ƕ5	•
C82000	340.1	-25.6	-44.5	15.0	487.0		2002	15.6	1.000109
C-00067	334.0	-26.7	1.01-	15.0	472.0		270.5	35.0	1.000107
€95€0•0	331.9	-27.6	-40.5	15.0	471.0		274.3	52.4	1.000105
300000	325.0	-28.0	-46.5	15.0	461.7		271.0	51.3	1.000103
აიან0•	316.2	-28.3	-46.7	15.0	452.7		405.5	37.5	1.000101
0.00010	311.5	-29.0	D. 74-	15.0	サーヤカヤ		40100	35.3	1.000100
0.00clc	304.9	-30.1	-48.2	15.0	437.0		272.7	36.7	1.000098
0.0000	274.5	-31.1	0.05-	13.6**	429.0	600.1	2.672	39.4	1.000096
0.00020	255.5	-3<-1	_	7.4+*	422.5		0.407	4.64	1.000004
0.00000	200.0	-33.1	-70.3	1.2**	415.0		O-+02	45.6	1.000052
13500.0	27.5.6	U.+U-			3.00		<03.c	47.4	1.00001
3+0.00·0	273.7	-35.0	-		401.3		7-002	46.5	1.00000
2+500.0	267.7	-30-9			394.6		270.2	46.0	1 • 00000cb
350000°	201.9	-30.1			380.1		2.67.2	47.1	
0.0300	220.2	-39-3			381.7		270.0	48.1	1.000065
30000	2500.7	-40·5			4.070		209.1	4.03	
30200	740.1	D• [4-			364.0		207.0	છ•છ ા	
6.901/c	7.4.7	0.64-			352.7		7.107	£0.0	
0.037.0	7.477	0 • + + -			356.0		0./02	51.2	
30000	269-1	1.55			347.3		40702	26.L	1.000078
D.0000	7.477	ーない。			34~+5		0./07	60.2	1.0000 %
J. 96.	K.017	.+			0.000		1.007	63.0	1.000075
39500.0	۶۰,15 ر	7.7			£.0€.c		ຕ•ດຸດຈ	0.40	1.000074
0.0300v	20%	147.0			324+9		7.403	62.0	1.000072
F.U.V.U.	5.402	-50.3			5. L 3. 3		K.0703	4.09	1.00001
3.0.01.	0.64	-51.6			210.2	573	3.40%	50.4	1.000070
41500.A	7.4.7	-50.0			300.		2020	96.0	1.00000
•	1.0.1	£ - + C =			1.005	J/0.	1.50%	59.0	1.060000
425.0.0	100.4	-55.7					r.302	ت 63ء	1.00000
4.00,000	1,11.0	5.35-			1.167	575.7	٠٠٢٠٠	59.0	1.0000

** AT LLAST UNC ASSUMED MELATIVE HUMINITY VALUE WAS USED IN THE INTERPOLATION.

TATION ALIITUDE 11 AUG. 79 ISULIISTUN NO. 2	30c 28	3497.10 FEEJ MSL 3038 HRS HST 6	EJ MSL . AST		UPPER AIN LATA 24300-0260 5 A R TABLE 9 Cont.	R LATA Ozbo Cont.		GEODETI 32. 100.	GEODETIC COOKDINATE J2.46334 LAF EE 100.42307 LON LE
EuseThic Liirue	PRESSUR	A	TEMPERATURE DEMPOSHIT	REL.HUM. PERCENT	သောဖ	SPEED OF	UINECTION SATA	TA SPEEU	INCEX
V PECI	4111104X2	OF GFTE S	CENTISKADE		ارا ارا ا		DEGREE ST (13)	200	KEPKAC 1 4 0%
ċ	177.2	-57.2			285.9		¿c7.0	5.63	1.00006
3	173.0	-56-3			4.082		702	59.8	1.00000
4500·	104.8	4.00-			273.1		¥.00;	61.3	1.00006
000	104.7	-60.5			262.8		9.902	63.5	1.00000
*5500.0	8	-61.5			264.7		3.00%	9.49	1.00005
_	3	-62.6			201		207.0	3.49	1.00005
-	153.1	-63.7			254.7		4./07	0.50	1.00003
•	7.7	9.49-			244.0		7.007	28.2	1.0000
: -	1+0+1	1.00-			N - 0 + 0		4.697	3.00 0.00 0.00 0.00	1.00005
•	7.747	**/0			3.0		٠ ٢٠ ٢٠	21	SONOO T
8500	138.0	2.00-			220.0		7.72	46.7	1.00005
2006	133.1	2.89			230.5		272.5	9 0	1.00000
_	\.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	***			1.022		K. 2/2	0.04	1000001
•	1.971	5 * 6 9 -			220.5		7.072	3.60	1.00004
0.0000	7.071	C.0/-			N: 018		2.7.7.5	1./6	1.00004
_	1221	1.1/-			5.012		0.003	0.00	1.00004
•	6.077	1111			7.002		C • 707	20 c	1.00000+L
0.0000	6.077	C.T.)			C•002		400	****	1.0000
	0.011	169-			2.061		0 · K Q N	22.6	1.00004
	2.011	1.63			196.		3.4V	9.7	*0000 · T
3.0000	707	0 : 0 0 : 0 1 : 0			V		7.167	7.01	1.0000.1
	0 1 1	, c			8 - / / 1	7.00	**************************************	101	1+0000+1
	9-501	70/01			7.77		ינים. מינים.	N .	70000 T
0.00.00	47.1	0.00			2001	ָהָייָה היינית ביינית	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 to 1	1.00.00.1
	7.46	0.01		•	16.01		N () 1 / ()		1.0000
0.00000	76.3	-70.i			150.4		C11.	14.6	1.000035
	90.0	-71.5			150.0		4.017	12.0	1.000035
57550.0	67.7	-71.1			151.0		Z-012	1.6	1.000034
:	3.00	-70•5			147.0		4.2.3	o•¢	1.000023
:	4.50	1.69-			144.0		2.612	2.8	1.0000
0.00066	0.13 1.	-ce-			137.1		7+0+7	1.9	1.000031
	77.0	0.50			D-101		0.767	အ . (1.00002
•					12/-6		ن د ج	ภ • เ	1.00000
0.0000	0.07	1070			124.4		7.04		1.00062
•		64.0			721.		1/	0.11	1.000027
•	· · ·	1.23			119.0	2000	ナ・コの	12.7	1.00000
;	1.0/	-ck.8			llu.c		رئ.	14.5	1.000026
3		-61.9			116.5		0./0	13.7	1.00602
0.0000	9 • 0 3	0.10			10%-7	507.3	2.00	12.	1.000024

Content Cont	STATION ALII 31 AUG- 79 ASCENSION 40	TVDE 34	197.30 FEET MSL 0836 HRS MST		UPPLR AIM UAIK 2433000280 5 m R TABLE 9 Cont.	K LATA Debe Cont.		32 - 32 - 106 -	SEODETIC COORDINATES SE-48034 LAF LEG- 106-42307 LON LEG
100-10 50-0-0 100-10 50-0 100-10 50-0-0 100-10 50-0-0 100-10 50-0-0 100-10 50-0-0 100-10 50-0-0 100-10 50-0-0 100-10 50-0-0 100-10 50-0-0 100-10 50-0-0 100-10 50-0-0 100-10 50-0-0 100-10 50-0-0 100-10 50-0	GEUMETHIC ALIITUDE NSL FELT	PRESSURE MILLIBARS	PERATURE DEMPOINT CENTIGRAD	KEL.HUM. PERCENT		SPEEU OF SCOND FNUTS	JINU UAT UIRECTIO. DEGREES(TH)	ra Speed Rivots	INUEX OF REFRACTION
63.6 -60.7 10.1 10.	0.5500.0	2.50	-60.0		100.5	Ď,	11. 60	12.1	1.000.024
94.1 56.0 19.3 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	0.00000	93.6	-80.7		104.0		2.0	14.7	1.000023
6006 6-62-0 501-0-9-1	0+200.0	04.1	-61.3		10701		5.00	17.2	1.000025
by11 by12 by13 by14 by15 by16 by16 by17 by16 by16 <td< td=""><td>050000</td><td>9.09</td><td>-62.0</td><td></td><td>100.0</td><td></td><td>0.b0</td><td>19.3</td><td>1.000022</td></td<>	050000	9.09	-62.0		100.0		0.b0	19.3	1.000022
57.7 -59.2 94.2 22.3 55.0 -60.5 60.5 60.5 60.5 55.0 -60.5 60.5 60.5 60.5 55.0 -60.5 60.5 60.5 60.5 50.1 -60.5 60.5 60.5 60.5 51.1 -60.5 60.5 60.5 60.5 44.7 -60.5 60.5 60.5 60.5 44.7 -50.2 70.5 77.1 16.2 40.4 -50.2 70.5 77.1 15.4 40.5 -50.2 70.5 77.1 15.4 40.5 -50.2 70.5 77.1 15.4 40.5 -50.2 77.1 77.1 15.4 40.5 -50.2 77.1 77.1 16.2 40.5 -50.2 77.4 16.2 11.2 40.6 -70.1 77.2 17.2 16.2 40.7 -70.1 77.2 77.2 27.2 </td <td>_</td> <td>59.1</td> <td>6.09-</td> <td></td> <td>97.1</td> <td></td> <td>7.50</td> <td>21.0</td> <td>1.000022</td>	_	59.1	6.09-		97.1		7.50	21.0	1.000022
56.5 -69.7	_	57.7	-pa-s		9*•0		7.16	22.7	1.00001
55.0 - 600.1 55.4 - 600.5 56.4 - 600.5 57.1 - 59.9 49.9 - 59.3 40.7 - 59.9 40.7 - 59.9 40.7 - 59.9 40.7 - 59.9 40.7 - 59.9 40.7 - 59.9 40.7 - 59.9 40.7 - 59.9 40.7 - 59.9 40.7 - 59.9 40.7 - 59.9 40.7 - 59.9 40.7 - 59.9 40.8 - 59.9 40	-	56.3	-59.7		61.6		500	22.3	1.0000.0
25.1 -60.05 51.1		55.0	-60.1		6.08		C.TOT	22.0	1.000020
55.4 + 60.6 b	•	7.50	-60.5		87.Y		, 10 c	20.5	1.000020
95.1. 1-59.4 44.7 - 59.4 44.7 - 59.4 44.7 - 59.4 44.7 - 59.4 44.7 - 59.4 44.7 - 59.4 47.1 57.1. 57.1. 77.1 15.1. 47.1 57.1. 77.1 57.1. 15.1. 47.2 - 50.0 47.3 - 50.0 47.4 - 57.6 47.5 - 50.0 47.6 - 50.0 47.6 - 50.0 47.7 - 50		54.4	9.09-		85.e		707	18.3	1.000019
##9.9 - 559.3	-	51.1	-59.4		8,08		T. QT	16.2	1.000019
40.4		D.T.	-59.3		?•18 •18		٥٠/٥	15.4	1.000018
44.0 - 556.2	0.00060	40.7	-53.7		7.5.5		110.	15.1	1.000014
# 157.6 # 157.6 # 157.7 # 157.4 # 157.	70000-0	47.0	-58.2		77.1		70.6	15.5	1.000017
##55 -557.1 ##55 -550.0 ##52		† · O †	-57.6		75-1		c•0/	16.2	1.000017
44.2 -50.0 42.2 -50.0 42.2 -50.0 42.2 -50.0 42.2 -50.0 42.2 -50.0 42.2 -50.0 42.2 -50.0 42.2 -50.0 40.0		40.0	1-22-		7.0.1		, o	16.9	1.000016
40.5	-	の。 まま:	20.00		7.17		74.0	181	970000-1
14.2 -55.5 14.2 -55.5 14.3 -55.5 14.4 -55.2 14.4 -56.2 14.4 -	_	10.00	001		0 • N		9.67	19.6	STOOOS .
100.3	•	7.7.	7 • C · U		9.70		7.10	1.17	GTD000-T
390.5 - 55.0.2 - 55.0.2 - 55.0.2 - 55.0.2 - 55.0.3 - 55.0.2 - 55.0.3 - 55.0.2 - 55.0.3 - 55.0.2 - 55.0.3 - 55.0		7.14	0 • 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 ·		0.00		e : 0	7.47	2100001 1 00001
30.6 -55.0 3.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5		, O. C.	**************************************		# T		3	0 : 0 :	**************************************
37.5 -54.9 30.6 -54.7 30.6 -54.7 30.6 -54.7 30.6 -54.7 30.6 -54.9 30.6 -54.7		3.66	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0.70		* * * * * * * * * * * * * * * * * * * *	2 4 4 6 7	1.000014
30.6 -54.7 36.8 -54.7 36.8 -54.5 37.0 57.0 97.1 25.4 11 25.4 11 25.4 12 37.0 57.0 97.1 25.4 11 25.4 11 25.4 11 25.4 11 25.4 11 25.4 11 25.5 11 25.6 11 25.7 10 25.7 10 25.8 11		37.5	D • + G •		6.55		43.6	25.5	1.000013
35.6 -54.5 34.9 -54.6 34.9 -54.9 34.1 -54.2 34.2 -54.0 34.3 -54.0 35.3 -54.0 35.3 -54.0 35.3 -54.0 35.4 -54.0 35.5 -54.0 35.6 -54.0 35.7 -54.0 35.8 -54.0 35.9 -55.0 35.0 -54.0 35.0 -54.0 35.0 -54.0 35.0 -54.0 35.0 -55.0 45.0 -57.0 45.0 -57.0 45.0 -57.0 45.0 -57.0 45.0 -57.0 45.0 -57.0 45.0 -57.0 45.0 -57.0 45.0 -57.0 45.0 -57.0 45.0 -57.0 45.0 -57.0 45.0 -57.0 45.0 -57.0	75500.0	30.0	-54.7		50.4		7.0£	25.3	1.000013
34.9 -54.4 34.1 -54.2 35.3 -54.2 35.3 -54.0 35.3 -54.0 35.3 -54.0 35.4 -57.1 35.6 -57.1 35.6 -57.1 35.6 -57.1 35.6 -57.1 35.6 -57.1 35.6 -57.1 35.6 -57.1 35.7 -57.1 35.8 -57.1 35.9 -57.1 35.0 -57.1 36.0 -57.1 37.1	700000	35.8	5.45-		27.0		₹•16	25.4	1.000013
34.1 -54.2 35.3 -54.0 35.3 -54.0 35.0 -50.0 35.0 -50.0 35.0 -50.0 36.0 -	70506.0	0.45	104.4		ກາວ		20.0	25.5	1.000012
35.3 -54.0 32.0 -53.9 32.0 -53.9 31.8 -53.9	77000.0		-54+5		5++5		20.00	25.9	7.00001
31.6	77500.0		0.1		3.00		J. 55	26.4	1.000012
11.0 -53.5	0.0000/		6.50 <u>-</u>		7-13		3.A.F.	56.9	1.000012
10.3	79200.0	21.0) • C C		0. 0. 0.		٥٠٨٨	26.6	1.000011
10.00	0.0000	0.TC	-53.5		り・ハナ		· • • • • • • • • • • • • • • • • • • •	26.1	1.000011
10 24.0 27.0 27.0 27.0 37.0 27.0 37.0 27.0 37.0 27.0 37.0 27.0 37.0 27.0 37.0 27.0 37.0 27.0 37.0 27.0 37.0 27.0 37.0 27.0 37.0 37.0 37.0 37.0 37.0 37.0 37.0 3	0.00567	ر. د د د د د	⊅• ? (. •		1.04		101.	25.0	1.000011
10.0	0.00.00	0.67	J.5.C.		5° 0 €		ر • <i>لالا</i>	25.7	1.600010
44.5 5/2.4 45.4 45.4 50.5 1 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20	0.00000	6.07	₽• 20-		40.4		4.72	45,9	1.000010
10.0	010,00	C.07	-61.0		1		4.CV	20.5	1.000610
10.0 27.0 -50.9 42.3 5eu.a 00.0 28.5 1 10.0 6c.4 -50.4 30.0 11.0 5e1.5 00.0 30.0 1 40.2 5e1.5 00.0 30.0 1	į,	0./7	#•191		オ・ラオ		つ・ブド	27.5	1.00001
30.0 1.0 20.0 1.0 4.0 61.0 501.0 1.0 30.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	ġ	0.42	0.03.		7.77	Scure	3.00	28.5	1.00000
1 5.00 t.co 2.20 Zint the 30.00 I		•	サ・コニー		?• T t	301.5	ວ ເດ	30.0	1.000000
	3	•	0.77		7.04	2000	す・??	30.5	1.000009

STATISH ALIIIUUL 3. 31 AUG: 79 ASULHANN 110. 206	L: III UDE 35 9 1.0. 206	3997.30 F2E1 MSL 000c mRS NST 36	I MSL		UPPLR AAK LATA 24300.02cc 5 F. R TABLE 9 Cont.	LnTA ice ont.		JE ODE TI	JEOGETIC COCKDIMATES 52.48034 LAT LE 100.42307 LOM DE
GEUNE TRIC ALITIUE NSE FLET	GEUNETHIC PRESSURE ALITIANA MSE FLET MILLIBARS	TEMPI AIM DEGNEES (TEMPERATURE R DENPOINT LES CENTIGNADE	REL.HUM. PERCENT	REL.HUM. DELSITY SPLED OF PERCENT GMZCUBIC SOUND MLTER NNOTS	SPLEU OF SOUND ANOTS	will DATA UINCOIL SI CEGREES (14) NI	SPEEU SPEEU NAOTS	INUEX OF REFRACTION
0.9560	25.5	4.4.4		-	35.5		61.5	31.7	1.000009
0.00000		-44.9			30.5		C-00	52.7	1.000000
0.00000		7.04-			37.5		0.70	34.3	1.00008
0.00000		-47.7			3.0E		7.00	36.6	1.000008
0.0000		-47.2			35.4		7.00	36.3	1.000008
0.0000		-40.7			34.0		4.40	36.0	1.000008
0.00500		-40.5			33.4		٠1٠	36.ú	1.00007
a70c0.0		-45.8			34.9	4./PS 1	7.26	36.6	1.000007
0.00019		145.4			34.1				1.000007
0.00000		-45.0		-	31.0				1.00000.7
05500	70.0	-44.5			30.5	504.0			1.000007

GLOPOTENTAL WIND DATA TEMPERATURE TEMPERATURE ALTITUD DIMECTION SPELD N=5 E=h DEW PI DEP AG R PRESSURE LOBOS J999.** 9999.** -9999.** -9999.** 999	STATION ALIITUDE 39 31 AUG- 79 ASCENSION NO. 286	JE 3y97+30 FEET MSL 0a38 HMS MST 2b6	1 MSL N.S.T	MKN SIGNIFICANT 2430000 5 m R TABLE 10	SIGNIFICANT LEVEL DATA 243000260 5 m R TABLE 10	JA TA	GEODETIC 32.4 106.4	GEODETIC COORUINALES 32-4434 LAT LEG. 106-42307 LUM DEG
999.** 9999.** -9999.** 99 -44.5 89. 19019. 99 -46.8 101. 13. 210. 99 -453.3 82. 100210. 99 -553.3 101. 10. 210. 99 -59.2 101. 10010. 99 -59.2 89010. 99 -60.0 85. 8. 10010. 99 -62.2 85. 85. 8. 10010. 99 -62.2 217. 2. 10. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	GEOPOTENTAL ALTATUDE VECAMETENS	DARECTION UEG (TN)	WIND SPEED MPS	DATA N-S MPS	라 1 1 1	Utw Pf Dr.P	TEMPERATUR AIR UEG C	Σ.
89. 19019. 99 -46.8 82. 10210. 99 -55.3 88. d010. 99 -55.3 101. 10. 210. 99 -59.2 101. 10010. 99 -59.2 89. e010. 99 -62.8 85. d10010. 99 -62.8 326. 110. 6. 99 -62.8 217. 2. 1. 1. 1. 1. 1. 2. 2. 59.2 216. 5. 2. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	20po.	***6666	***6666	***6666-	*** ~~~~	2.	-44.5	2.000+1
101. 13. 213. 99 -53.3 82. 10210. 99 -55.3 88. d00. 99 -59.3 101. 10. 214. 99 -59.3 11. 10014. 99 -59.3 89. e014. 99 -62.2 89. e014. 99 -62.2 85. d150. 99 -62.2 210. 6. 515. 99 -62.8 210. 6. 515. 99 -62.8 210. 6. 515. 99 -62.8 210. 6. 515. 99 -62.8 210. 6. 515. 99 -62.8 246. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	\$00?	•68	15.	-0,	·51-	1	146.E	2.26u+1
82. 10210. 95 -55.3 88. d00. 99 -59.5 101. 10. 210. 99 -60.6 89. 10010. 99 -62.2 89. e010. 99 -62.2 85. d10. 99 -62.6 85. d10. 99 -62.6 817. 2. 10. 60. 99 -62.6 817. 2. 10. 60. 99 -62.7 818. 10. 60. 99 -62.7 81910. 60. 99 -62.7 810. 60. 99 -62.7 810. 60. 99 -62.7	24×0•	101.	13.	, 1	-13.	46	-53-	3.000+1
88. do -00. 99 -59.2 101. 10. 210. 99 -60.8 91. 12. 0. 99 -60.8 89. 10010. 99 -62.2 89. 62.2 85. do -10. 99 -62.8 326. 11. 0. 99 -62.8 217. 2. 1. 1. 1. 0. 99 -70.0 210. 6. 5. 2. 5. 5. 5. 5. 6.7	5192.	82°	10.	, ,	-110	ሌድ የ	-55-3	4.500+1
101. 10. 210. 99 -60.8 91. 12. 012. 99 -59.2 88. 10010. 99 -62.2 89. 60.0 85. 6010. 99 -62.2 210. 60. 50. 50. 50. 99 -70.0 210. 60. 50. 50. 50. 99 -70.0	****	* & *	· •	0-	• o -	ት	-59.	5.000+1
91. 12. 012. 99 -59.2 88. 10010. 99 -62.2 85. 610. 99 -62.6 326. 11. 0. 99 -62.8 217. 2. 1. 1. 2. 99 -70.0 210. 6. 5. 5. 5. 5. 99 -71.5	5060.	101.	10.	۶.	-77-	66	€-09-	5.200+1
E8. 10010. 99 -62.2 89. 000. 99 -60.0 85. 010. 99 -62.8 226. 11. 0. 99 -62.2 217. 2. 1. 1. 2. 99 -70.0 210. 6. 5. 0. 99 -71.5 246. 5. 2. 5. 99 -71.5	2003.	91.	12.	•	-16.	55	-59.5	5.780+1
85. 60.0 85. 62.6 326. 11. 6. 99 -62.8 217. 2. 1. 2. 99 -70.0 210. 6. 5. 5. 5. 5. 99 -71.5	1973.	83	10.	9	-10.	ر و	-62.2	6.020+2
85. do -ib. 99 -62.6 326. lo -1. (c 99 -62.2 217. 2. lo 99 -70.0 210. 6. 5 99 -71.5 246. 5. 2. 5. 99 -66.7	1929.	• • •	ò	Ģ	3	66	0.09-	6.520+1
326. 11. 6. 99 -62.2 7 217. 2. 99 -70.0 6 210. 6. 5. 5. 5. 5. 99 -71.5 8 246. 5. 2. 5. 99 -66.7 1	1485.	82.	Ď	ij	0	66	-62.6	7.003+1
217. 2. 1. 2. 99 -70.0 6 210. 6. 5. J. 99 -71.5 8 246. 5. 2. 5. 5. 99 -66.7	1610.	326.	-;	-1:	3	<u>አ</u>	-62.2	7.640+1
210· 6· 5· J· 99 -71·5 6 246· 5· 2· 5· 5· 99 -66·7	1774.	217.	۲.	1.	~	65	-70·ú	8.380+1
246. 5. 2. 5. 99 -66.7 1	1/30•	210.	ġ	ທີ	;	55	-71.5	8.940+1
	1609.	246.	in n	?	.	ሌ ን	-66.7	1.000+2

** #INU DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND LLEVATION MINULES. 17

NANDATORY LEVELS	ν Σ	TABLE 11

JEODETIC COORDINATES J2.46034 LAT DEG. 106.42307 LON DEG

PRESSURE	PRESSURE GEOPOTENTIAL		TEMPERA I URE	KEL . HUM.	HINE DAFA	ALA
1.LLIBARS	FEET	A (R DEGREES	DE POINT CENTIGRADL	PERCENT	UIRECTION UEGREES (IN)	SPEED KNOTS
850.0	********	21.5	15.6	, , , ,	195.1	†• 1
900.0	0083	19.4	13.0	.69.	104.0	6. 5
750.0		16.6	ģ	500	151.4	7.7
700.0		14.6	2.7	77,	207.4	٥.
0.053		7.2		٠,٠	104°T	3. ¢
0.009		1.7	7.71	3	164.0	5.1
550.0	16863.	-1.6	-24.0	10.	211.8	ڻ•ڏ ڻ
500.0		-5.7	-28.5	• • • •	204.00	4.7
450.0	-	-11.2	-33.5	• •	304.0	J
ŋ•00 1		-17.7	138.6	14.	347.L	0. <i>k</i>
350.0		-25.0	0.44-	.01	296.0	J.6
300.0		-30.9	6.94-	.7		34.0
250•0		-40·7				40.4
200.0		-51.5				54.6
175.0		-57.8				59.5
150.0	46795	9.49-				59.5
125.0		-70·t				37.1
1000		-66.7			2.7.42	10.0
3.38		9.49-			272.0	7•1
70.0		-62.8			85.5	14.6
J•09		-62.0	•		4.00	50.0
50.0	Ī	-59.3				10.5
0.04	-	-55.3				8.52
30.0		-53.3			6.001	23.66
0.07	_	1.64-				6••0
6.03	06130	-44.5				

MRI MANDATORY LEVELS	2430000260	X T VS	TABLE 12
	TAIION ALIITUÜE 3597.30 FEET MSL	ST AUG. 79 UR3B HRS MST	Scelitz i 01 140 - 266,

GEODETIC COONDINATES 32.48034 LAT DEG . 106.42307 LUN LEG

GE GPO TELL TAR		ZNI *	DATA		•	TEPERATUKE		
ALTATUDE DECAMETERS	DARECTION DEG (TR)	SPELD 14PS MP	N-N SPS	# .0 # .1 # .1	DEN PT DEN DEG C	AIH DEG C	PRESSURE MILLIBARS	
,080,		***6666	***6666-	*** 7000-	66	3.44-	2.000+1	
2530.	81.	16.	-3.	-10.	66	-49.1	2.500+1	
2420	101.	13.	, N	-10.	<u>ښ</u>	-53.3	3.000+1	
2435	92.	12.	•	-14.	<u>ښ</u>	-55.3	4.000+1	
· +602	89.	Ď	-0-	٩٠	66	-59.3	5.000+1	
1,480	88.	10.	-0-	-10.	66	-62.0	6.000+1	
1005.	85.	7.	-1:	-1.	66	-62.8	7.000+1	
1504	273.	-	-0	7.	<u>0</u> 0	9.49-	8.000+1	
1000	247.	ņ	2.	ó	66	-66.7	1+000+2	
1550.	276.	19.	٠. د.	19.	66	- 9.04-	1.250+2	
1420.	26b.	200	-		<u>څ</u>	9.49-	1.500+2	
1991	, çö 7 .	31.		•10	ና ሰ	-57°B	1.750+2	
	262.	31.	.	.00	66	-51.5	2.000±2	
1601	.602	25•	•	• (7	ر ۍ	-40.7	2+20045	
	.78.	20.	.;·	• 0 7	10	-30.9	3.000+2	
955	297.	۲.	7	7	19	-25.0	3.500+2	
701.	347.	;		4.4	77	-17.7	7+000+	
071.	355.	÷	7	• 7	7,7	-11.2	4.500+2	
-69¢	365.	.	7	•	3	-5.7	2.000+5	
• 17	212.	٠ <u>.</u>	3.	·	7 5	-1.0	5.500+2	
*C++	130.	ņ.	3.		ာ	1.7	6.000+2	
374.	134.	ů.		• 1.	0.7	7.2	6.500+2	
510.	306.	•	-0-	• •	n :	12.0	7.000+2	
•607	151.	:	7.	• > -	0	16.6	7.500+2	
- 107	164.	• 7	٦.	• > -	90	19.4	8 • 000 + 2	
151.	193.	-	-	• •	9	21.5	8.500+2	

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND LLEVATION MNGLES.